INTERNATIONAL SEARCH REPORT

International application No.

	THE THE LOCAL	application 140.	
	PCT/US04/23	3634	
			
assification a	and IPC		
fication sym	bols)		

CLASSIFICATION OF SUBJECT MATTER IPC(7) A61K 31/00; GO1N 33/53; 33/543 US CL 73/64.47; 424/449; 435/3; 436/807; 514/1

According to International Patent Classification (IPC) or to both national cl

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification system) U.S.: 73/64.47; 424/449; 435/3; 436/807; 514/1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X 	WO 02/10941 AZ (THE REGENTS OF THE HMIVED SITY OF GALLEODAY)	1-8,13-18, 33, 35-41
Y	February 2002, see entire document.	44-46, 52
		9-12, 19-32, 34, 43 47-51
Y	WO 02/06518 A1 (TRANSFORM PHARMACEUTICALS, INC.) 24 January 2002, see	9-12, 19-32, 34, 43
Y	VIAN, L. et al., "Comparison of Three In Vitro Cytotoxicity Assays for Estimating Surfactant Ocular irritation", Toxic. In Vitro, Vol. 9, No. 2 pages 185-190 (1995), see entire article.	47-51 19-32, 34, 43, 47-5
Y	FDA: "Guidance for Industry: Skin Irritation and Sensitization Testing of Generic Transdermal Drug Products" Internet at: http://www.fda.gov/cder/guidance/index.htm, (updated 3/8/01) pages 1-8, see entire document.	19-32, 34, 43, 47-5

- 1	\mathbb{N}	The state of the s			
L		Further documents are listed in the continuation of Box C.		See patent family annex.	
1	*	Special categories of cited documents:	WT#		
	"A"	document defining the general state of the art which is not considered to be of particular relevance	•	later document published after the international filing date or priority date and not in conflict with the application but cited to unclerstand the principle or theory underlying the invention	
	"E"	earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention carnot be considered novel or cannot be considered to involve an inventive step	
	"L"	document which may throw doubts on priority claim(s) or which is cited to		when the document is taken alone	
		establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention carrinot be considered to involve an inventive step when the document is	
1		document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such documents, such combination being obvious to a person skilled in the art	
	"P"	document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family	
Date of the actual completion of the international search		<u> </u>			
1	i e e e e e e e e e e e e e e e e e e e		Date of mailing of the international search report		
08 December 2004 (08.12.2004)		1	28 JAN 2005		
Name and mailing address of the ISA/US		Authoriza	ed officer		
Mail Stop PCT, Attn: ISA/US		1144110112	ed officei		
Commissioner for Patents		Bennett	Celsa DEDODALI A TUGARA		
P.O. Box 1450 Alexandria, Virginia 22313-1450			OLDONAN A. IHUMAS		
Facsimile No. (703) 305-3230		Telephon	e No. 703-308-01 PARALEGAL SPECIALIST		
F	Form DCVE(104 (040 4			GROUP 1980 1/12	
re	Form PCT/ISA/210 (second sheet) (January 2004)				

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/23634

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
X	US 5,446,025 A (LU et al.) 29 August 1995, see entire document.	32, 35-41, 44-50,
Y		32, 33-11, 44-30,
x	US 5,947,921 A (JOHNSON et al.) 7 September 1999, see entire document.	33, 35-41, 44-50,
x	Pharmaceutical Skin Penetration Enhancement: MOLLGAARD, B "Synergistic Effects in Percutaneous Enhancement", (ed.: K. Walters & J. Hadgraft 1993), New York, Marcel Dekker pages 229-242, see entire article.	33, 35-41, 44-48, 52
A	US 5,490,415 A (MAK et al.) 13 February 1996, see entire patent.	1-52
A	KARANDE, P et al., Pharm. Res. Vol. 19, No. 5 (May 2002) pages 655-660, see entire article.	1-52
A	SANTUS, G.C. et al., "Transdermal Enhancer Patent Literature", J. Controlled Release Vol. 25 (1993) pages 1-20, see entire article.	1-52
A	MITRAGOTRI, S "Synergistic Effect of Enhancers for Transdermal Drug Delivery", Pharm. Res. Vol. 17, No. 11 (2000) pages 1354-1359, see entire article.	1-52
	ı	
	,	

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/23634

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internation	nal search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
t	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
b	Claims Nos.: secause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Internation Please See Cont	al Searching Authority found multiple investigation in this is
2. As pa	s all required additional search fees were timely paid by the applicant, this international search report covers all archable claims. s all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite yment of any additional fee. s only some of the required additional search fees were timely paid by the applicant, this international search report vers only those claims for which fees were paid, specifically claims Nos.:
Remark on Prote	required additional search fees were timely paid by the applicant. Consequently, this international search report is tricted to the invention first mentioned in the claims; it is covered by claims Nos.: The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International application No. INTERNATIONAL SEARCH REPORT PCT/US04/23634 BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid. Gp 1: claims 1-32, 34 and 51 drawn to screening methods. Gp. 2: claims 33, 36-41 and 45-46 drawn to enhancer compositions. Gp. 3: claims 35, 44, 47-50 and 52 drawn to bioactive containing compositions & use. Gp. 4: claim 42 drawn to composition comprising lauyl ether sulfate & 1-phenyl piperazine. Gp. 5: claim 43: drawn to composition comprising lauryl sarcosine & sorbitan monolaurate. The above groups lack unity since their shared features are not "special" technical features. Diffusion (e.g. membrane) apparatus and screening method of penetration enhancers are known in the art (see e.g. WO 02/16941) as are synergistic penetration enhancer compositions for transdermal delivery (e.g. see US 5,446,025 and US 5,947,921 documents).

Continuation of B. FIELDS SEARCHED Item 3: WEST: USPT, PGPB, USOC, EPAB, JPAP, DWPI, TDBD. STN: FILE REG, CAPLUS, EMBASE, BIOSIS, MEDLINE, WPIDS, DRUGU, CHEMINFORMEX, USPATFUL.